

IN THE CLAIMS:

Amend claim 1 as follows:

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1 1. (Amended) A device for grafting a prosthesis to [the]
2 a wall of a lumen, said device comprising:
3 a) a tubular introducer sheath having a longitudinal
4 bore;
5 b) a prosthesis comprising a tubular graft having a
6 longitudinal bore and disposed in the longitudinal bore of
7 said tubular introducer sheath, said graft being expandable
8 radially to substantially conform to [the] an interior wall
9 of a lumen;
10 a self expanding spring [expanding] assembly
11 [permanently] attached to said tubular graft for expanding
12 said graft so that it substantially conforms to [the] an
13 interior wall of a lumen [when said prosthesis is removed
14 from] after said introducer sheath has been removed from
15 said self expanding spring assembly; and
16 [an] anchoring means for [permanently] attaching
17 said graft to an interior wall of a lumen;
18 c) [a] tubular carrier means having a longitudinal
19 bore and disposed in the longitudinal bore of said tubular
20 graft, said carrier means [provided with] also having a
21 plurality of apertures;
22 d) [a] central control means for maintaining [the] an
23 axial position of said prosthesis during removal of said
24 introducer sheath, said central control means being
25 disposed in the longitudinal bore of said tubular carrier
26 means; and
27 e) mooring loops engaging said prosthesis and passing
28 through said apertures in said tubular carrier means to
29 engage said central control means.

Amend claim 5 as follows:

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1 3. (Amended) The device of claim 1 wherein said self
2 expanding spring [expanding] assembly comprises a plurality
3 of spring frames.

Cancel claims 14 and 15.

Amend claim 20 as follows:

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1 20. (Amended) A method for engrafting a prosthesis to
2 [the] a wall of a lumen comprising the steps of:
3 a) providing an access to the lumen;
4 b) providing a device for engrafting said prosthesis
5 comprising:
6 a tubular introducer sheath having a longitudinal
7 bore;
8 a tubular graft having a longitudinal bore and
9 disposed in the longitudinal bore of said tubular
10 introducer sheath, said graft being expandable radially to
11 substantially conform to [the] an interior wall of a lumen;
12 a self expanding spring [expanding] assembly
13 [permanently] attached to said tubular graft for expanding
14 said graft so that it substantially conforms to [the] an
15 interior wall of a lumen when [said prosthesis is removed
16 from] said introducer sheath has been removed from said
17 self expanding spring assembly;
18 [an] anchoring means for [permanently] attaching
19 said graft to an interior wall of a lumen;
20 [a] tubular carrier means having a longitudinal
21 bore and disposed in the longitudinal bore of said tubular
22 graft, said tubular carrier means [provided with] also
23 having a plurality of apertures;
24 [a] central control means for maintaining [the]
25 an axial position of said prosthesis during removal of said
26 introducer sheath, said central control means being
27 disposed in the longitudinal bore of said tubular carrier
28 means; and
29 mooring loops engaging said prosthesis and
30 passing through said apertures in said tubular carrier
31 means to engage said central control means;

32 c) inserting said device into said access and urging
33 said device [into a lumen] to a desired location within the
34 lumen;

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Cont) 35 d) withdrawing said tubular introducer sheath to
36 expose said prosthesis;

37 e) allowing said self expanding spring assembly to
38 self expand and substantially conform at least a portion of
39 said graft to an interior wall of the lumen after said
40 introducer sheath has been removed from said self expanding
41 spring assembly;

42 [e)] f) disengaging said central control means from
43 said mooring loops; and

44 [f)] g) removing said tubular introducer sheath,
45 carrier means, and central control means.

Amend claim 24 as follows:

Sub E 3 1 24. (Amended) A transluminal arrangement for positioning
a prosthesis assembly at a particular position on a wall of
3 a lumen, comprising:

B4 4 a prosthesis assembly including a graft having a
5 longitudinal bore and a self expanding spring assembly
6 having a compressed state, said self expanding spring
7 assembly radially expanding said graft to substantially
8 conform said graft at a particular position on an interior
9 wall of a lumen [when] after said prosthesis assembly [is]
10 has been positioned in the lumen and said self expanding
11 spring assembly [is] has been released from said compressed
12 state; [and]

13 [introducer] means for containing said self expanding
14 spring assembly in said compressed state; and

15 means positioned in said bore of said graft for
16 retaining said prosthesis assembly at the particular
17 position in the lumen [while] when withdrawing said
18 [introducer] means [is withdrawn] for containing from said
19 prosthesis assembly and releasing said self expanding
20 spring assembly from said compressed state.

Amend claim 25 as follows:

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(cont.)

1 25. (Amended) The transluminal device of claim 24 wherein
2 said [introducer] means [include] for containing includes
3 a tubular introducer sheath with a longitudinal bore and
4 wherein said prosthesis assembly is positioned within said
5 bore of said introducer sheath.

Amend claim 27 as follows:

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1 27. (Amended) The transluminal arrangement of claim 24
2 [wherein said means for retaining comprises] further
3 comprising means for releasing said prosthesis assembly
4 from said means for retaining [when] after said introducer
5 means has been withdrawn from said prosthesis assembly [is
6 positioned at the particular position in the lumen].

Amend claim 28 as follows:

1 28. (Amended) A method of transluminally positioning a
2 prosthesis assembly at a particular position on an interior
3 wall of a lumen, comprising the steps of:
4 providing access to a lumen;
5 providing an introducer sheath having a longitudinal
6 bore;
7 providing a prosthesis assembly positioned in [an]
8 said longitudinal bore of said introducer sheath and
9 including a graft having a longitudinal bore and a self
10 expanding spring assembly having a compressed state, said
11 self expanding spring assembly radially expanding said
12 graft to substantially conform said graft at a particular
13 position on an interior wall of a lumen [when] after said
14 prosthesis assembly [is] has been positioned in the lumen
15 and said introducer sheath [is] has been withdrawn from
16 said prosthesis assembly releasing said self expanding
17 spring assembly from said compressed state;
18 providing means positioned in said bore of said graft
19 for retaining said prosthesis assembly at the particular
20 position in the lumen;

21 positioning said introducer sheath and said prosthesis
22 assembly positioned in said bore of said introducer sheath
23 through said access to the particular position in the
24 lumen; and
25 withdrawing said introducer sheath from said
26 prosthesis assembly positioned at the particular position
27 in the lumen.

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(cont.)
Amend claim 29 as follows:

1 29. (Amended) A transluminal arrangement for positioning
2 a prosthesis assembly at a particular position on a wall of
3 a lumen, said prosthesis assembly including a graft having
4 a longitudinal bore and a self expanding spring assembly
5 having a compressed state, said self expanding spring
6 assembly radially expanding said graft to substantially
7 conform said graft at a particular position on an interior
8 wall of a lumen [when] after said prosthesis assembly [is]
9 has been positioned in the lumen and said self expanding
10 spring assembly [is] has been released from said compressed
11 state, said transluminal arrangement comprising:
12 means positioned in said bore of said graft for
13 retaining said prosthesis assembly at the particular
14 position in the lumen; and
15 means for releasing said prosthesis assembly from said
16 retaining means when positioned at [a] the particular
17 position in the lumen.

Amend claim 31 as follows:

Sub E5
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1 31. (Amended) A transluminal arrangement for
2 transluminally positioning a prosthesis assembly (1,12,31)
3 of predetermined shape and size at a particular position on
4 an internal wall (20) of a lumen, said prosthesis assembly
5 comprising a graft (1) associated with a self expanding
6 spring assembly (12,31), said transluminal arrangement
7 comprising an outer sheath (4) for surrounding said
8 prosthesis assembly when the latter is located at the
9 particular position, and means (39,39',21, 26) for

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(cont.)

10 retaining said prosthesis assembly at the particular
11 position while said outer sheath is being removed,
12 characterized in that said retaining means has connected
13 thereto an attachment arrangement (39,39') to be
14 temporarily attached to said prosthesis assembly at [one or
15 more positions] at least one position remote from a
16 proximal end of said prosthesis assembly.

Amend claim 32 as follows:

1 ~~32~~¹⁶ (Amended) The transluminal arrangement of claim ~~32~~¹⁵,
2 characterized in that said retaining means comprises an
3 elongated member (21) to be extended within said prosthesis
4 assembly, and in that said attachment arrangement is
5 extended between said elongated member and said prosthesis
6 assembly at said [one or more positions] at least one
7 position.

Amend claim 34 as follows:

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1 ~~34~~¹⁸ (Amended) The transluminal arrangement of claim ~~34~~¹²,
2 characterized in that a contraction arrangement (39,
3 39',21) is provided to temporarily pull said prosthesis
4 assembly [inwardly to a compressed condition] when said
5 sheath is being withdrawn from said prosthesis assembly [is
6 within said sheath], and in that a disabling arrangement
7 (26) is provided for [expandably] releasing said prosthesis
8 assembly either during or after removal of said sheath.

Amend claim 36 as follows:

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1 ~~36~~²⁰ (Amended) The transluminal arrangement of claim ~~36~~¹⁹,
2 characterized in that said attachment arrangement comprises
3 [one or more connectors] at least one connector each in the
4 form of sutures (39, 39') connected at one end to said
5 prosthesis assembly and at the other end to inside of said
6 elongated tube via apertures (29,101) and in that said
7 disabling arrangement (26) is provided for releasing said
8 sutures from inside said elongated tube.

[Amend claim 37 as follows:]

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(cont)

1 ~~37.~~ (Amended) The transluminal arrangement of claim ¹⁶~~32~~,
2 characterized in that said self expanding spring assembly
3 comprises at least four barbs at a distal end of said
4 spring assembly.

Add new claims 39 and 40 as follows:

Just E6
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1 39. An arrangement for transluminally positioning a
2 prosthesis assembly at a particular position on an internal
3 wall of a lumen, said assembly comprising a graft
4 associated with self expanding spring apparatus, said
5 arrangement comprising an outer sheath for surrounding the
6 said assembly when the latter is at the said particular
7 position, means for ensuring that the prosthesis assembly
8 is maintained at the said particular position during
9 removal of the outer sheath, said arrangement further
10 comprising releasing means for disabling the ensuring means
11 after the outer sheath has been withdrawn from the self
12 expanding spring apparatus and the prosthesis assembly has
13 self expanded to the internal wall of the lumen at said
14 particular position.

1 40. An arrangement for transluminally positioning a
2 prosthesis assembly at a particular position on an internal
3 wall of a lumen, said assembly comprising a graft
4 associated with self expanding spring apparatus, said
5 arrangement comprising an outer sheath for surrounding the
6 said assembly when the latter is at the said particular
7 position, means for restraining axial movement of the
8 prosthesis assembly during at least partial removal of the
9 outer sheath, and means for disabling the restraining means
10 after the outer sheath has been withdrawn from the self
11 expanding spring apparatus and the prosthesis assembly has
12 self expanded to the said internal wall.